

Title (en)

HIGH-VOLTAGE GAS-BLAST PUFFER TYPE CIRCUIT-BREAKER

Publication

EP 0061992 B1 19861120 (EN)

Application

EP 82730040 A 19820323

Priority

- DE 3113325 A 19810330
- DE 3124075 A 19810616
- DE 3201646 A 19820118

Abstract (en)

[origin: EP0061992A2] A gas-blast puffer type SF6 circuit-breaker exhibiting essentially features as follows: Dual-blast nozzle arrangement wherein a first nozzle being made of electrically conductive material, and a second nozzle being made of electrically insulating material; a movable compression cylinder of electrically insulating material bearing a tube-shaped contact piece intended for carrying mainly continuous current; a nozzle-shaped arcing contact piece connected mechanically rigid and electrically suitable for carrying current with said movable contact piece. The further improvement to said inventive concept characterize: A first compression cylinder of electrically insulating material surrounding temporarily the nozzle arrangement and being engaged with a first fixed piston; a second compression cylinder of metal being engaged with a temporarily catchable compression piston, both cylinders and pistons establishing a first and a second volume, said volumes communicating pneumatically with each other in a controllable manner, representing during an opening operation a high-performance gas compression system. In a third step of this systematic development the high-performance compression system is further improved to an impulse compression system by speeding up the movable structural components of the circuit-breaker and setting in the main gas compression successively.

IPC 1-7

H01H 33/91

IPC 8 full level

H01H 33/88 (2006.01); **H01H 33/90** (2006.01); **H01H 33/91** (2006.01); **H01H 33/915** (2006.01); **H01H 33/24** (2006.01); **H01H 33/70** (2006.01)

CPC (source: EP)

H01H 33/884 (2013.01); **H01H 33/901** (2013.01); **H01H 33/91** (2013.01); **H01H 33/24** (2013.01); **H01H 33/7015** (2013.01); **H01H 33/905** (2013.01); **H01H 2033/907** (2013.01)

Cited by

CN110537240A; EP0897185A1; FR2767221A1; US6018133A; EP0367072A1; FR2638564A1; US5001314A; WO2018192732A1

Designated contracting state (EPC)

CH FR GB LI SE

DOCDB simple family (publication)

EP 0061992 A2 19821006; **EP 0061992 A3 19830817**; **EP 0061992 B1 19861120**

DOCDB simple family (application)

EP 82730040 A 19820323